FACT SHEET

Lawrence Berkeley National Laboratory
Performance-Based Environmental Management System

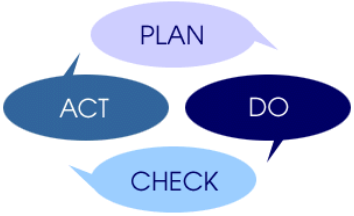
Background
Executive Order 13148, Greening the Government through Leadership in Environmental Management, required all federal agencies to implement an Environmental Management System (EMS) by December 31, 2005. An EMS is a systematic approach to achieve environmental goals. DOE Order 450.1, Environmental Protection Program, established the EMS requirement for all DOE facilities and, in addition, mandated that the EMS be integrated with existing Integrated Safety Management (ISM) systems.

Performance-Based Approach
Consistent with the principles established by Robert Card, Undersecretary of Energy, Science and Environment, LBNL will develop and implement a performance-based EMS – a systematic approach to ensuring that environmental stewardship activities are well managed **and** provide business value. The performance-based approach will be one that includes those components of the ISO 14001 EMS Standard that provide real and tangible business value; this approach will allow the Lab to focus resources on those activities that have environmental benefit while maintaining and building on the strengths of the current environmental compliance programs.

Goals
The goals of the LBNL EMS approach are to:

- Comply with applicable environmental and public health laws and regulations.
- Prevent pollution and conserve natural resources.
- Continually improve that Laboratory's environmental performance.

A continual cycle of planning, implementing, evaluating, and improving processes will be performed to achieve these EMS goals.



Implementation
An EMS Core Team was formed to implement the EMS. The Core Team is currently composed of representatives from the Environmental Health & Safety (EH&S), Facilities and Procurement organizations. The Core Team has been working on the following implementation tasks:

- Identification of aspects and impacts - environmental aspects (activities or services that may produce a change to the environment) resulting from LBNL operations have been identified. The impacts associated with each aspect were identified and these aspects were then ranked according to environmental significance.
- Development of objectives and targets - The seven activities with the most significant impacts were selected and objectives and targets were developed for reducing their environmental impacts.
- Preparation of Environmental Management Programs (EMPs) - Action plans were prepared that summarize how the objectives and targets will be achieved, including time-scales and personnel responsible for implementing the appropriate actions.

ENVIRONMENTAL MANAGEMENT PROGRAMS

1. Diesel Particulate Matter
2. Low Level Radioactive Waste
3. Electronic Waste
4. Procurement of Environmentally Friendly Products
5. Vehicle Fleet Petroleum Use
6. Energy Efficient Buildings
7. On-site Traffic Reduction

Validation
The EMS program will be audited by the Lab's Office of Assessment and Assurance (OAA) and a third-party to determine if all programmatic activities were completed and to determine the effectiveness of the program. Progress in achieving EMS objectives and targets and the results of EMS internal and external reviews will be reviewed by a Laboratory executive management team.